

What is claimed is:

1. A data processing apparatus comprising:

an analyzing section which receives as its input structure description data with a structure of entire media contents that are continuous visual and audio information or of part of the media contents, said structure being expressed by a set of time information of each media segment obtained by dividing the media contents, and which acquires the time information of the media segment described in the structure description data input thereto; and

a converting section that converts the structure description data into representation description data expressive of representation order, representation timing and synchronization information of the media segment, using the time information of the analyzed media segment, to output.

2. The apparatus according to claim 1, wherein the structure description data has a set of alternative data to the media segment, and said converting section

converts the structure description data into the representation description data expressive of representation order, representation timing and synchronization information of at least one of the media segment and the alternative data.

3. The apparatus according to claim 1, wherein the representation description data is a SMIL document.

4. The apparatus according to claim 2, further comprising:

a media selecting section that selects either the media segment or the alternative data to represent in
5 representing the media segment expressed in the structure description data,

wherein based on selection by said media selecting section, said converting section converts the structure description data into the representation description
10 data expressive of representation order, representation timing and synchronization information of either the media segment or the alternative data.

5. A data processing apparatus comprising:

a selecting section which receives as its inputs
15 structure description data with a structure of media contents that are continuous visual and audio information in which image information and audio information are synchronized, said structure being expressed by a set of each media segment obtained by
20 dividing the media contents, with time information of the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data, and which selects only the
25 media segment with the score meeting the selection condition from the structure description data input thereto; and

a converting section that converts the media segment selected in said selecting section into representation description data expressive of representation order, representation timing and synchronization information of the media segment selected, to output.

6. The apparatus according to claim 5, wherein the structure description data has a set of alternative data to the media segment, and said converting section 10 converts the structure description data into the representation description data expressive of representation order, representation timing and synchronization information of at least one of the media segment and the alternative data.

15 7. The apparatus according to claim 5, wherein the score is indicative of an importance degree of a corresponding media segment based on the context content of the media content.

8. The apparatus according to claim 5, wherein the media segment is assigned a viewpoint represented by a 20 keyword, and the score is indicative of an importance degree based on the viewpoint.

9. The apparatus according to claim 6, wherein said selecting section selects either the media segment or 25 the alternative data to represent in representing the media segment expressed in the structure description data.

10. A data processing apparatus comprising:
a selecting section which receives as its inputs
structure description data with a structure of media
contents that are continuous visual and audio
5 information including at least one of image information
and audio information, said structure being expressed
by a set of each media segment obtained by dividing the
media contents, with time information of the media
segment, and with a score based on a context content of
10 the media segment, and a selection condition for
selecting a predetermined media segment from the
structure description data, and which selects the media
segment with the score meeting the selection condition
from the structure description data input thereto; and
15 a converting section that converts the media
segment selected in said selecting section into
representation description data expressive of
representation order, representation timing and
synchronization information of the media segment
20 selected to output.

11. A data processing apparatus comprising:
a selecting section which receives as its inputs
structure description data with a structure of media
contents that are continuous visual and audio
25 information, said structure being expressed by a set of
each media segment obtained by dividing the media
contents, with time information of the media segment,

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and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data, and which selects the media segment 5 with the score meeting the selection condition from the structure description data input thereto; and

a converting section that converts the media segment selected in said selecting section into representation description data expressive of 10 representation order, representation timing and synchronization information of the media segment selected to output; and

a representing section which receives as its inputs the representation description data and the media 15 contents, and which represents the media contents corresponding to contents of the representation description data.

12. A server client system comprising:

a server having the selecting section according to 20 claim 11 and the converting section according to claim 11;

a client having the representing section according to claim 11; and

a network that connects said server and said client, 25 wherein said server and said client communicate the representation description data therebetween.

13. A server client system comprising:

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a server having the selecting section according to
claim 11;

a client having the converting section according
to claim 11 and the representing section according to
5 claim 11; and

a network that connects said server and said client,
wherein said server and said client communicate
therebetween summary structure data with therein the
media segment selected in said selecting section only

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14. A data processing method, comprising:

receiving structure description data with a
structure of entire media contents that are continuous
visual and audio information or of part of the media
15 contents, said structure being expressed by a set of time
information of each media segment obtained by dividing
the media contents;

acquiring the time information of the media segment
described in the input structure description data; and

20 converting the structure description data into
representation description data expressive of
representation order, representation timing and
synchronization information of the media segment, using
the time information of the analyzed media segment, to
25 output.

15. A data processing method, comprising:

receiving structure description data with a

structure of media contents that are continuous visual and audio information in which image information and audio information are synchronized, said structure being expressed by a set of each media segment obtained by 5 dividing the media contents, with time information of the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data;

10 selecting only the media segment with the score meeting the selection condition from the input structure description data; and

15 converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

16. A data processing method, comprising:

20 receiving structure description data with a structure of media contents that are continuous visual and audio information including at least one of image information and audio information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of 25 the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the

input structure description data;

selecting the media segment with the score meeting the selection condition from the input structure description data; and

5 converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

10 17. A program for a computer to execute the procedures of:

 receiving structure description data with a structure of entire media contents that are continuous visual and audio information or of part of the media
15 contents, said structure being expressed by a set of time information of each media segment obtained by dividing the media contents;

 acquiring the time information of the media segment described in the structure description data input
20 thereto; and

 converting the structure description data into representation description data expressive of representation order, representation timing and synchronization information of the media segment, using
25 the time information of the analyzed media segment, to output.

18. A computer program for a computer to execute the

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procedures of:

receiving structure description data with a structure of media contents that are continuous visual and audio information in which image information and 5 audio information are synchronized, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of the media segment, and with a score based on context content of the media segment, and a selection condition 10 for selecting a predetermined media segment from the structure description data;

selecting only the media segment with the score meeting the selection condition from the structure description data input thereto; and

15 converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

20 19. A program for a computer to execute the procedures of:

receiving structure description data with a structure of media contents that are continuous visual and audio information including at least one of image 25 information and audio information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of

the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data;

5 selecting only the media segment with the score meeting the selection condition from the structure description data input thereto; and

10 converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

20. A computer readable storage medium with the program according to claim 17 stored therein.